

**American Diabetes Association Presents** 

# **Managing Diabetes and Its Comorbidities:**

# A Review of the ADA 2004 Clinical Practice Recommendations

This live teleconference/webcast is developed for internists, family physicians, endocrinologists, diabetologists, nurses, nurse practitioners, physician assistants and anyone who treats patients with diabetes.

# Participant Syllabus

Tuesday, June15, 2004 12:00 – 1:00 PM and 8:00 – 9:00 PM Eastern

TO PARTICIPATE

PLEASE DIAL 1-800-556-3831 USE PASSCODE 00385

**OR VISIT** 

www.meetingcast.com/ADA2004

This activity is supported through an educational grant from

MERCK US HUMAN HEALTH

Syllabus: Managing Diabetes and Its Comorbidities Management of Hypertension in Adults with Diabetes

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# **Key Facts**

#### WHAT:

This live teleconference/webcast series is designed to address the challenges of diabetes and its comorbidities. Cardiovascular disease is a major complication and the leading cause of death in people with diabetes. Contributing to the increased cardiovascular risk, risk factors including high blood pressure and dyslipidemia often accompany type 2 diabetes. To improve patient outcomes in this area, it is imperative the health care community remain knowledgeable about diabetic cardiovascular disease and effective clinical management approaches. This series features slide presentations followed by an interactive session allowing you to ask questions and receive immediate feedback. These discussions will be archived on the Internet and available as a CD-ROM following the live broadcasts.

#### WHO:

This activity will be of interest to medical professionals, especially:

- Internists
- Family physicians
- Endocrinologists
- Diabetologists
- Physician assistants
- Nurse practitioners
- Nurses

WHERE: This activity will be presented on the Internet and on the telephone:

Live Toll Free: 1-800-556-3831 code 00385

If you wish to participate in the activity through the Internet, please log on to <a href="https://www.meetingcast.com/ADA2004">www.meetingcast.com/ADA2004</a>

**WHEN:** The activity will be held live:

Tuesday, June 15, 2004 12:00 – 1:00 PM Eastern Tuesday, June 15, 2004 8:000 – 9:00 PM Eastern

# **Learning Objectives**

#### At the end of this activity, the participant will be able to:

- Summarize the American Diabetes Association's Standards of Medical Care for Patients with Diabetes;
- State the American Diabetes Association's key clinical goals;
- Discuss strategies for reducing macro- and microvascular complications in patients with diabetes.

# **Agenda** (Subject to Change)

- I. Welcome and Introduction
- II. Slide Presentation A Review of the ADA 2004 Clinical Practice Recommendations Vivian A. Fonseca, MD
- III. Live Question and Answer with Faculty Vivian A. Fonseca, MD

Moderator: George L. Bakris, MD 12:00 - 1:00 PM

# **Faculty**

#### Presenter



Vivian A. Fonseca, MD

Professor of Medicine
Tullis-Tulane Chair in Diabetes
Tulane University Health Sciences
Center
New Orleans, Louisiana

Vivian Fonseca, MD, MRCP is Professor of Medicine and Pharmacology and Tullis-Tulane Chair in Diabetes at the Tulane University Health Sciences Center. He is also Medical Director of the Tulane Hospital Diabetes Education Program, an ADA recognized diabetes patient education program. Currently, Dr. Fonseca serves on the American Diabetes Association's Professional Practice Committee and *Make the Link! Diabetes, Heart Disease and Stroke* Advisory Committee. He is a frequent lecturer on diabetes and hypertension and serves as an ad hoc reviewer for a number of scientific publications. He is involved in several research projects including the detection of ischemia in asymptomatic patients with diabetes and insulin pump treatment for type 2 diabetes.

# **Faculty**

#### **Moderator**



### George L. Bakris, MD

Vice Chairman, Department of Preventive Medicine Rush-Presbyterian-St. Luke's Medical Center Professor of Preventive Medicine and Internal Medicine Rush Medical College Chicago, Illinois

George L. Bakris, MD is a Professor of Preventive and Internal Medicine and currently Vice-Chairman of the Department of Preventive Medicine and Director of the Hypertension Training Program at Rush Medical College in Chicago. He is a board-certified nephrologist who served as Director of Renal Research at the Ochsner Clinic in New Orleans, Louisiana for three years. He currently serves as a consultant to the Cardio-Renal section of the FDA. He also serves on 10 different editorial boards of nephrology and hypertension journals including *Hypertension*, *Journal of Nephrology* and *The American Journal of Nephrology*. He has authored more than 180 articles and abstracts as well as numerous book chapters, primarily in the areas of diabetic nephropathy and hypertensive renal disease. He was also a member of the writing committee of the JNC VI.

### **Disclosure Statement**

As a provider of continuing education credits (accredited by the Accreditation Council for Continuing Medical Education, Virginia Nurses Association, and Accreditation Council for Pharmacy Education) the American Diabetes Association must ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All faculty participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and (2) with any commercial supporters of the activity. (Significant financial interest or other relationship can include such things as grants or research support, employee, consultant, major stockholder, member of speakers bureau, etc.) The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but rather to provide listeners with information on which they can make their own judgments. It remains for the audience to determine whether the speaker's interests or relationships may influence the presentation with regard to exposition or conclusion.

### **Disclosures**

Vivian A. Fonseca, MD	Grant /Research Support and Scientific Advisory Panel for: GlaxoSmithKline, Pfizer Inc., Eli Lilly & Co., Aventis Pharmaceuticals, and Takeda Pharmaceuticals
George L. Bakris, MD	Grant/Research Support, Consultant, Speaker's Bureau and Advisory Board for: AstraZeneca, Merck, Novartis, Boehringer Ingelheim, Sankyo, and Reliant

### **Accreditation**

#### PHYSICIANS:

The American Diabetes Association is accredited by the accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The American Diabetes Association designates this continuing medical education activity for a maximum of 1.0 hours in Category 1 credit towards the American Medical Association's Physician's Recognition Award. Each physician should claim only those hours of credit that he/she has spent in the educational activity.

This activity has been reviewed and is acceptable for up to 1.00 prescribed credits by the American Academy of Family Physicians.

#### NURSES:

The American Diabetes Association is approved as a provider of continuing education in nursing by the Virginia Nurses Association (VNA) which is accredited as an approver of continuing education in nursing by the American Nurse's Credentialing Center's Commission on Accreditation. The American Diabetes Association is located at 1701 North Beauregard Street, Alexandria, VA 22311. VNA-CEA Provider Number: 04-03-02.

This educational activity is approved by the Virginia Nurses Association (VNA) which is accredited by the American Nurses Credentialing Center's Commission on Accreditation as an approver of Continuing Education in Nursing for a maximum of 1.2 VNA Contact Hours. The VNA is located at 7113 Three Chopt Road, Suite 204, Richmond, VA 23226.

The American Diabetes Association is also a provider approved by the California Board of Registered Nursing, Provider No. CEP-12196, for 1.0 contact hours.

#### NURSE PRACTITIONERS:

This activity has been approved for 1.2 contact hours of continuing education by the American Academy of Nurse Practitioners. Program ID 0404196

#### **PHYSICIAN ASSISTANTS:**



This activity has been reviewed and is approved for a maximum of one hour of clinical Category 1 (Preapproved) CME credit by the American Academy of Physician Assistants. Physician assistants should claim only those hours actually spent participating in the CME activity.

This activity was planned in accordance with AAPA's CME Standards for Live Programs and for Commercial Support of Live Programs.

### **ADA Clinical Practice Recommendations**

The American Diabetes Association recommends a comprehensive approach to the management of diabetes that includes aggressive control of blood glucose as well as other cardiovascular risk factors. Full text of the Association's Clinical Practice Recommendations is available online at <a href="https://www.diabetes.org/cpr">www.diabetes.org/cpr</a>. Below is a summary of key clinical goals:

Key Clinical Goals			
Glycemic control			
A1C	< 7%		
Preprandial plasma glucose	90-130 mg/dl		
Peak postprandial plasma glucose	< 180 mg/dl		
Blood pressure	< 130/80 mmHg		
Lipids			
LDL	< 100 mg/dl		
Triglycerides	< 150 mg/dl		
HDL	> 40 mg/dl		

# Additional Resources for Health Professionals and Patients With Diabetes

#### **American Diabetes Association**

#### www.diabetes.org

- American Diabetes Association Clinical Practice Recommendations
- Patient information
- Local programs

#### www.diabetes.org/recognition/education

• List of nationwide ADA Recognized Patient Education Programs

#### www.diabetes.org/MaketheLink

- Diabetes Cardiovascular Disease Toolkit, a kit of reproducible patient education tools
- Interactive learning tools

#### 1-800-DIABETES (342-2383)

- Patient information
- Local programs

# **How to Ask Questions During the Program**

#### Questions by E-Mail

If you are participating online, you may submit your questions via e-mail. Type your question in the question box that appears on the website and send it at any time during the broadcast.

#### Questions by Phone

If you are participating by telephone, you may press \* 0 on your telephone keypad. The operator will connect you with a live question screener. The screener will listen to your question, take your name, and then ask you to wait while they let the moderator know there is a question. (During this brief wait, you will be able to hear the continuing discussion). The moderator will then cue you to ask your question.

# SPEAKER'S SLIDES

Slide 1

# Standards of Medical Care in Diabetes

American Diabetes Association
Clinical Practice Recommendations
2004

Vivian A. Fonseca, MD, MRCP

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Slide 2

#### **Learner Objectives**

- Summarize the ADA's Standards of Care for patients with diabetes
- State the ADA's key clinical goals
- Discuss strategies for reducing macroand microvascular complications in patients with diabetes

#### **ADA Clinical Practice Recommendations**

Diabetes Care Volume 27 Supplement 1 January 2004

full text available online at www.diabetes.org

e 4	
	Classification
	<ul> <li>Type 1: beta cell destruction, absolute insulin deficiency</li> </ul>
	<ul> <li>Type 2: progressive insulin secretory defect; insulin resistance</li> </ul>
	<ul> <li>Gestational Diabetes Mellitus</li> </ul>
	<ul> <li>Other: genetics, diseases of the pancreas</li> </ul>

#### **Criteria for Diagnosis**

■ Symptoms of diabetes and a casual plasma glucose ≥ 200mg/dl

or

- Fasting plasma glucose ≥ 126 mg/dl
- 2-hr postload glucose ≥ 200 mg/dl during an OGTT

Confirm with repeat testing on a different day

Use of A1C for the diagnosis of diabetes is not recommended at this time

Slide 6

#### **Testing for Diabetes**

- Consider in all individuals age 45 years and above, particularly those with a BMI ≥ 25 kg/m
- If normal, repeat testing at 3 year intervals
- Consider at a younger age or more frequently in individuals who are overweight and have additional risk factors

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Pre-Diabetes				
FPG or 2-hr PG	<u>Diagnosis</u>			
100-125 mg/dl	IFG			
140-199 mg/dl	IGT			
	FPG or 2-hr PG 100-125 mg/dl			

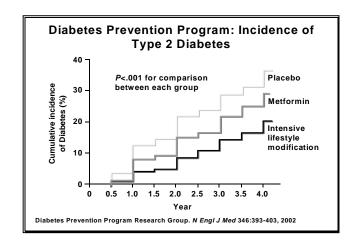
Slide 8

#### **Pre-Diabetes**

#### **Diabetes Prevention**

- Losing 5-10% of total body weight and exercising 30 minutes/day 5 days/week can reduce progression to diabetes by 58% (DPP)
- Lifestyle interventions in DPP delayed the onset of diabetes approx 3 years
- Drug therapy has not been shown to be as safe or effective as lifestyle interventions in preventing diabetes

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#### Slide 10

Diabetes Management			
Glycemic Control			
A1C	<7.0%		
Preprandial plasma glucose	90-130 mg/dl		
Postprandial plasma glucose	<180 mg/dl		
Blood Pressure	<130/80 mmHg		
Lipids			
LDL	<100 mg/dl		
Triglycerides	<150 mg/dl		
HDL	>40 mg/dl		

#### Key Concepts in Setting Glycemic Goals

- Should be individualized
- Certain populations require special considerations
- Less intensive goals may be indicated in patients with severe or frequent hypoglycemia
- More stringent goals may further reduce complications at the cost of increased risk of hypoglycemia
- Postprandial glucose may be targeted if A1C goals are not met despite reaching preprandial glucose goals

Slide 12

#### **Assessment of Glycemic Control**

- SMBG
  - integral component of diabetes therapy
  - include in management plan
  - instruct patient in SMBG and evaluate their techniques and ability to use data
- A1C
  - perform test every 6 months if goals being attained and treatment regimen stable
  - every 3 months if goals not attained or treatment regimen being changed

# Primary Goals of Medical Nutrition Therapy

- Attain and maintain recommended metabolic outcomes:
   glucose, LDL, HDL, triglycerides, BP, body weight
- Modify nutrient intake and lifestyle to prevent and treat the chronic complications and comorbidities of diabetes
- Improve health through healthy food choices and physical activity
- Address individual nutritional needs, cultural preferences, and lifestyle

#### Slide 14

#### **Distribution of Calories**

- 10% 20% from protein
- < 10% from saturated fat</p>
- < 10% from polyunsaturated fat
- 60% 70% of calories from monounsaturated fat and carbohydrate
- < 300 mg cholesterol per day</p>

#### **Physical Activity**

A regular physical activity program, adapted to the presence of complications, is recommended for all patients with diabetes who are capable of participating.

Slide 16

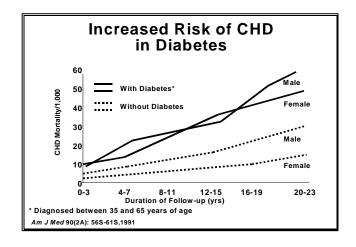
#### **Physical Activity**

- Important for overall general health and well-being
- Essential part of the diabetes regimen
  - Enhances insulin sensitivity
  - Augments weight-reduction efforts
- Reduces macrovascular disease risk
- Aerobic exercise is preferred
- Accumulate 30 minutes of moderate activity on most days of the week

#### **Exercise Guidelines**

- Medical evaluation for CAD, PVD, and neuropathy
- Choose activity patient enjoys
- Educate on hypoglycemia
- Proper foot care and footwear
- Blood glucose monitoring pre and post
- Insulin or carbohydrate adjustments when necessary
- Medical ID

lide 18		
	Prevention and Management of Diabetes Complications	

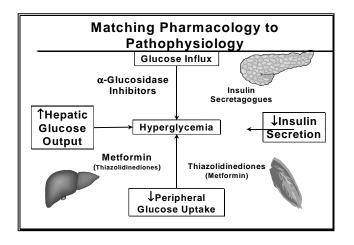


Slide 20

#### Metabolic Syndrome- NCEP ATP III

- Abdominal Obesity Waist > 40 in men, > 35 in women
- Triglycerides > 150
- HDL < 40 men; < 50 women
- BP > 130/85
- Fasting Glucose >110
- Any 3 of the above- CPT 277.7

JAMA 285:2486-2497, 2001



Slide 22

#### **Treatment of High Blood Pressure**

- If systolic between 130-139 or diastolic between 80-89
- -lifestyle and behavior therapy for a maximum of 3 months
- -start medications if target not reached
- If systolic >140 or diastolic >90
  - -medications in addition to lifestyle intervention

Slide 24

#### **Treatment of High Blood Pressure**

- Agents shown to be beneficial in controlled trials:
  - Angiotensin II receptor blockers and ACE inhibitors
  - Thiazide diuretics in low doses
  - Beta-blockers in CAD
  - Calcium channel blockers

#### **Treatment of High Blood Pressure**

- In presence of microalbuminuria:
  - Type 1 with or without HTN ACEI shown to delay progression of nephropathy
  - Type 2 with HTN- ACEI and ARB shown to delay progression to macroalbuminuria
- Type 2 with HTN and macroalbuminuria and renal insufficiency
  - ARB shown to delay progression of nephropathy
- If one class is not tolerated, another can be substituted

Slide 26

#### **Dyslipidemia in Diabetes**

#### <u>Increased</u>

- Triglycerides
- VLDL
- HDL
  - Apo A-I

**Decreased** 

- LDL and Small **Dense LDL**
- Аро В

#### **Lipid Management**

- Improve glucose control
- Weight loss if overweight
- Daily exercise
- Smoking cessation
- Low saturated fat, low cholesterol diet
- Pharmacologic treatment frequently necessary

Slide 28

#### **Lipid Goals**

LDL cholesterol <100 mg/dl</li>

HDL cholesterol >40 mg/dl (men)

> 50 mg/dl (women)

Triglycerides <150 mg/dl</li>

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#### **Initiation of Treatment**

Total CHO ≥ 135 mg/dl and > 40 years of age

Statin therapy to achieve an LDL reduction of ~ 30% regardless of baseline levels

may be appropriate

LDL ≥ 130 mg/dl

Lifestyle interventions and

statin therapy

LDL 100-129 mg/dl

Strategies may include more aggressive MNT and statin therapy. A fibric acid

derivative or niacin might be used if HDL is < 40 mg/dl.

Slide 30

**Effect of Lipid Lowering Drugs** HDL-C Statins Fibric acid Bile acid resins Nicotinic acid

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# Order of Priorities for Treatment of Diabetic Dyslipidemia in Adults

- I. LDL cholesterol lowering
  - Lifestyle interventions
  - Preferred: HMG CoA reductase inhibitor (statin)
  - Others: Bile acid binding resin, cholesterol absorption inhibitor, fenofibrate or niacin
- II. HDL cholesterol raising
  - Lifestyle interventions
  - Nicotinic acid or fibrates

Continued

Slide 32

# Order of Priorities for Treatment of Diabetic Dyslipidemia in Adults

#### III.Triglyceride lowering

- Lifestyle interventions
- Glycemic control
- Fibric acid derivative (gemfibrozil, fenofibrate)
- Niacin
- High-dose statins (in those who also have high LDL cholesterol)

Continued

# Order of Priorities for Treatment of Diabetic Dyslipidemia in Adults

- IV. Combined hyperlipidemia
  - First choice: Improved glycemic control plus high dose statin
  - Second choice: Improved glycemic control plus statin plus fibric acid derivative\* (gemfibrozil, fenofibrate)
  - Third choice: Improved glycemic control plus statin plus nicotinic acid

The combination of statins with nicotinic acid and especially with gemfibrozil or fenofibrate may carry an increased risk of myositis

Slide 34

#### **Screening for Lipid Disorders**

#### Screening

- Adults, test annually and more often if needed to achieve goals
- If at goal, repeat every two years
- Children > 2 years, lipid profile after diagnosis of diabetes and when glucose control established

#### **Anti-Platelet Agents in Diabetes**

- **Primary Prevention** 
  - Over 40 years old
  - Family history of CHD
     Cigarette smoking

  - Hypertension Obesity
  - Albuminuria
  - Dyslipidemia
- infarction
- Secondary Prevention History of myocardial
  - Vascular bypass
- procedure Stroke or TIA
  - Peripheral vascular disease
  - Claudication, angina
- Enteric-coated aspirin 75-162 mg/day
- Contraindications

Slide 36

#### **Smoking Cessation**

#### Recommendations

- Advise all patients not to smoke
- Include smoking cessation counseling as a routine component of diabetes care

### Indications for Screening for CAD in Diabetic Patients

- Candidates for a diagnostic cardiac stress test:
  - Typical or atypical cardiac symptoms
  - Abnormal ECG
- Candidates for a screening cardiac stress test:
  - History of peripheral or carotid occlusive disease
  - Sedentary lifestyle, age ≥35 years, and plans to begin a vigorous exercise program
  - Two or more risk factors
    - dyslipidemia
    - hypertension
    - Smoking
    - Family history of premature CAD
    - Presence of micro/macroalbuminuria

Slide 38

#### **Nephropathy**

- Occurs in 20-40% of patients with diabetes
- Single leading cause of end stage renal disease
- Persistent albuminuria is earliest stage of diabetic nephropathy
- Microalbuminuria a marker of increased CVD risk

#### **Nephropathy Screening**

- Perform annual test for microalbuminuria:
  - Type 2: start at diagnosis
  - Type 1: start at 5 years after diagnosis
- Screening can be performed by three methods:
  - Albumin-to-creatinine ratio in a random spot collection (preferred method)
  - 24-hour urine collection
  - Timed
- If positive for microalbuminuria, repeat within 3 months
- If 2 out of 3 tests are abnormal, begin treatment

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#### Slide 40

#### **Nephropathy Screening**

Category Spot Collection

(ug/mg creatinine)

Normal <30

Microalbuminuria 30-299

Macro (clinical) albuminuria 300

#### **Nephropathy Treatment**

#### **Treatment**

- Optimize glucose and blood pressure control
- Micro-and macroalbuminuria ACE inhibitors or ARBs should be used
- In presence of nephropathy, initiate protein restriction
- Monitor serum potassium levels for development of hyperkalemia
- Consider referral to physician experienced in care of diabetic renal disease

#### Slide 42

#### **Diabetic Retinopathy**

- Vascular complication of both type 1 and type 2 diabetes
- Most frequent cause of new cases of blindness among adults
- Nephropathy is associated with retinopathy
- High blood pressure is a risk factor for macular edema and is associated with PDR
- Pregnancy in type 1 patients may aggravate retinopathy

#### **Diabetic Retinopathy Screening**

#### Screening

- Type 1 adults and adolescents, comprehensive eye exam 3-5 years after onset of diabetes
- Type 2 patients, comprehensive eye exam at diagnosis
- Annual examinations for both type 1 and 2
- Women with diabetes planning pregnancy should have an initial exam and follow-up throughout pregnancy


Slide 44

#### **Diabetic Retinopathy Treatment**

#### Recommendations

- Glycemic control reduces risk and progression of retinopathy
- Blood pressure control reduces risk and progression of retinopathy
- Aspirin therapy does not increase risk of hemorrhage

# Risk Factors for Ulceration and Amputation

- Peripheral neuropathy with loss of protective sensation
- Altered biomechanics
- Evidence of increased pressure
- Bony deformity
- Peripheral vascular disease
- History of ulcers or amputation
- Severe nail pathology

Slide 46

#### **Evaluating the Foot**

Annual foot exam to identify high-risk foot conditions should assess:

- ■Protective sensation
  - Semmes-Weinstein 5.07 monofilament
- •Foot structure and biomechanics
- ■Vascular status
  - History of claudication, pedal pulses; consider ABI
- Skin integrity

#### **Foot Care**

- Educate patient
  - Daily inspection
  - Proper foot care (nail, skin care)
  - Proper footwear
  - Avoid trauma to the feet
  - Smoking cessation
- Refer high-risk patients to foot care specialists

Slide 48

#### **Immunization**

- Influenza and pneumonia are common, preventable infectious diseases associated with high mortality and morbidity in patients with diabetes
- Recommendations
  - Annually provide an influenza vaccine to all diabetic patients 6 months of age or older
  - Provide at least one lifetime pneumococcal vaccine for adults with diabetes

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# Preventive Care Preconception Care

#### **Goals of Preconception Program**

- Assessment of a woman's fitness for pregnancy
- Obstetric evaluation
- Intensive education of woman and family
- Attainment of optimum diabetes control
- Timing and planning of pregnancy

Slide 50

# Preventive Care Preconception Care

#### Recommendations

- A1C levels normal in a patient before conception is attempted
- All women with childbearing potential should be educated about need for glucose control before pregnancy
- Women who are contemplating pregnancy should be evaluated and treated for retinopathy, nephropathy, neuropathy, and CVD

#### **Special Considerations**

Care of Older Adults with Diabetes

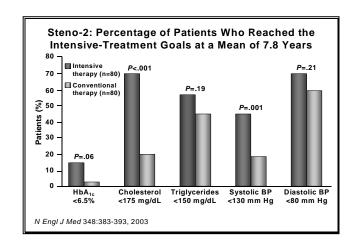
- 20% of patients over 65 years have diabetes
- Older persons with diabetes have higher rates of premature death, functional disability, and coexisting illnesses
- Greater reduction in morbidity and mortality may result from control of cardiovascular risk factors rather than glycemic control

Slide 52

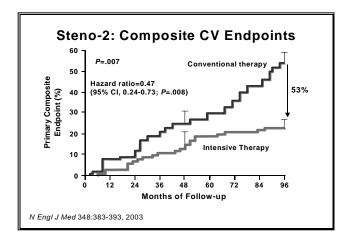
#### **Special Considerations**

**Children and Adolescents** 

- 3/4s of all newly diagnosed cases of type 1 diabetes occur in individuals younger than 18 years
- Type 2 diabetes is increasingly being diagnosed in children and adolescents
- Diabetes care should be provided by a team that can deal with the special medical, educational, nutritional, and behavioral issues
- At initial diagnosis, establish goals of care and begin self-management education



Slide 54



#### Conclusion

- Comprehensive approach required to effectively manage diabetes
- Talk to your patients about the ABCs of Diabetes:
  - A : A1C (HbA<sub>1</sub>c)
    - Goal < 7.0 %
  - B: Blood pressure
    - Goal < 130/80 mm Hg
  - Cholesterol (LDL)
    - Goal < 100 mg/dl